COCATE WELL CORRECTLY

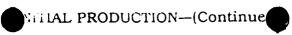
(SUBMIT IN TRIPLICATE)
TO

BOARD OF OIL AND GAS CONSERVATION OF THE STATE OF MONTANA BILLINGS OR SHELBY

#### Form No. 4 MAC 36-3.18(10)-S18070 MAC 36-3.18(10)-S18310 MAC 36-3.18(14)-S18380

# **COMPLETION REPORT**

Address 7887 East Belleview, Suite 800 Field (or Aree) Northwest Poplar Englewood, Co 8011 \( \text{N} \) The well is located 528 ft. from (98 line and 2065 ft. from (W) line of Sec. 27 (Dec. 27 ; T. 29N ; R. 50E ; County Roosevelt ; Elevation 2246' GL (D.F. R.B. or 0 (	Company _	Century	Oil & Gas	Corpora	tionLeas	seGo	ings			Well No. 1	SWDW
Englewood, CO 8011 (N) the well is located 528 ft. from (8) line and 2065 ft. from (W) line of Sec. 27    Commenced drilling	ddress 78	87 East	Belleview,	Suite	800	Fie	ld ( <del>or Ar</del>	ea) North	west Pop	lar	
Commenced drilling March 10	En	glewood,	CO 80111	(N)			USA				
The information given herewith is a complete and correct record of the well. The summary on this page is the condition of the well at the above date.  Completed as Salt Water Disposal Well  Title Production Manager  Date November 5, 1982  IMPORTANT ZONES OF POROSITY  (denote oil by O. gas by G. water by W; state formation if known)  From NA to NA From to NA From to Prom to From To State of From To State of From To State of From To From From To From From To From To From To From From										n 2246	' GL
The information given herewith is a complete and correct record of the well. The summary on this page is the condition of the well at the above date.  Completed as Salt Water Disposal Well  Title Production Manager  Date November 5, 1982  IMPORTANT ZONES OF POROSITY  (denote oil by O. gas by G. water by W. state formation if known)  From NA to NA Prom to Prom Prom to Prom To Sack of Cut and Prom Per Prom To Sack of Prom To Completions Prom To Sack of Cut and Prom Prom To Sack of Cut and Interval Amount Prom To Sack of Cut and Interval Amount Prom To Sack of Cut and Interval Amount of Prom To Sack of Cut and Prom To Sack of Cut and Amount Prom To Sack of Cut and Prom To Sack of Cut and Prom To Sack of Cut and Interval Amount of Prom To Sack of Cut and Interval Amount of Prom To Sack of Cut and Interval Amount of Prom To Sack of Cut and Interval Amount of Prom To Sack of Cut and Interval Amount of Prom To Sack of Cut and Interval Amount of Prom To Sack of Cut and Interval Amount of Prom To Sack of Cut and Interval Amount of Prom To Sack of Cut and Interval Amount of Prom To Sack of Cut and Interval Amount of Prom To Sack of Cut and Interval Amount of Prom To Sack of Cut and Interval Amount of Prom To Sack of Cut and Interval Amount of Prom To Sack of Cut and Interval Amount of Prom To Sack of Cut an										(D.F., R.)	B. of G.L.)
Title Production Manager  Date November 5, 1982  IMPORTANT ZONES OF POROSITY  (denote oil by O. gas by G. water by W. state formation if known)  From NA to NA From to Sack of Pulled from From To Cable for Tubing From From To Sack of Pulled from From To Sack of Pulled from Tubing From To Sack of Pulled from To S											
Title	he condition	on of the v	vell at the al	ove date	e.		//	11-			
IMPORTANT ZONES OF POROSITY  (denote oil by O, gas by G, water by W; state formation if known)  From NA to NA  From to Sack of Pulled from 24.5/8" 24# K-55 ST&C 302' 0 302' 250	Completed a	oil well.	later Dispo gas well, dry hole	sal We		/	/	1		econs.	
IMPORTANT ZONES OF POROSITY   (denote oil by 0, gas by G, water by W; state formation if known)   NA											
Casing Record   Casing Set   From   To   Casing Record   Cas						Date_	Novemb	er 5, 198	82		
Prom			(denote oil						known)		
CASING RECORD   CASING RECOR	From NA	to								14 3c	
CASING RECORD   CASING RECORD   Casing Set   From   To   Cement   Pulled from   S-5/8"   24#   K-55   ST&C   302   0   302   250	From	to				From		_ to			
CASING RECORD   Needs to be carbo   Surgeon	From	to				_ From_					
CASING RECORD   Size   Weight   Casing   Per Pt.   Grade   Thread   Casing Set   From   To   Cement   Pulled from   8-5/8"   24#   K-55   ST&C   302   0   302   250	From	to				From		_ to	4	-	0
Casing   Per Ft.   Grade   Thread   Casing Set   From   To   Cement   Pulled from   S-5/8"   24#   K-55   ST&C   302   0   302   250					CASIN	NG RECO	RD	needst	o be inte	o seay	ew or
Size   Weight   Tubing   Per Ft.   Grade   Thread   Amount   Perforations			Grade	Thread	Casi	ng Set	From	То		THE RESERVE AND ADDRESS OF THE PARTY OF THE	TO THE STREET OF STREET STREET
TUBING RECORD   TUBING RECORD   Tubing   Weight   Tubing   Per Ft.   Grade   Thread   Amount   Perforations   2-7/8"   6.5   J-55   ST&C   976			K-55	ST&C	302'	/	0	302			-
Size   Weight   Tubing   Per Ft.   Grade   Thread   Amount   Perforations	THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.			ST&C	1186'		0	1186'	300	_	-
Size   Weight   Tubing   Per Ft.   Grade   Thread   Amount   Perforations											- 12-11
Size   Tubing   Per Ft.   Grade   Thread   Amount   Perforations	7				TUDIA	IC PECO	PD				
COMPLETION RECORD   COMPLETION RECORD   COMPLETION RECORD   Cable tools were used from   Cable tools						T	T	Amount T	Perforation	ns	
COMPLETION RECORD  Rotary tools were used from											
Cable tools were used from				-	COMPLE						
PERFORATIONS  Interval Number and Size and Type From To Material Used Pressure  1028 1038 2 JSPF, 4" 1028 1038 1000 gallons 15% HCl 1800 psig 1080 1096 Jumbo Jet casing 1080 1096 1108 1116 gun (.45" hole) 1108 1116  (If P&A show plugs above)  INITIAL PRODUCTION  disposing into the Judith River (pool) formation.  I.P. NA barrels of oil per NA hours  NA Mcf of gas per NA hours.	Rotary tool	s were use	ed from		0			_ to1	187'		
Number and   Interval   Amount of   Material Used   Pressure	Cable tools Total depth	were use 1187	d from _ft.; Plugged	i back to	1142	T.D.;	Open ho			_to	
Interval   Number and   Size and Type   From   To   Material Used   Pressure	•										
From   To   Size and Type   From   To   Material Used   Pressure					Int		CIDIZED, S		ACED, CEMEN	TED	
1028   1038   2 JSPF, 4"   1028   1038   1000 gallons 15% HCl   1800 psig   1080   1096   1096   1108   1116   1108   1116   1108   1116   1108   1116   1108   1116   1108   1116   1108   1116   1108   1116   1108   1116   1108   1116   1108   1116   1108   1116   1108   1116   1108   1116   1108   1116   1108   1116   1108   1116   1108   1									1	Pres	sure
1080 1096 Jumbo Jet casing 1080 1096 1108 1116 gun (.45" hole) 1108 1116  (If P&A show plugs above)  INITIAL PRODUCTION  disposing into the Judith River (pool) formation.  I.P. NA barrels of oil per NA hours NA (pumpling or flowing)				-			1000	gallons 1	5% HC1		
1108 1116 gun (.45" hole) 1108 1116  (If P&A show plugs above)  INITIAL PRODUCTION  disposing into the Judith River (pool) formation.  I.P. NA barrels of oil per NA hours NA (pumping or flowing)  NA Mcf of gas per NA hours.		- Company of the Comp		casing			1000	94110113	V/V 1101	- D.	2010
INITIAL PRODUCTION  disposing into the Judith River (pool) formation.  I.P. NA barrels of oil per NA hours NA (pumping or flowing)  NA Mcf of gas per NA hours.	The second secon	THE R. P. LEWIS CO., LANSING, MICH. 491-491-491-491-491-491-491-491-491-491-	/ . = 11						- A-		
Well is producing from:  U.P. NA barrels of oil per NA hours NA hours.  NA Mcf of gas per NA hours.	1100		9411 (110	110107					Y Water		1
well is producing from:  U.P. NA barrels of oil per NA hours NA (pumpling or flowing)  NA Mcf of gas per NA hours.								P&A show plug	(s above)		
Well is producing from Oud th River (pool) formation.  I.P. NA barrels of oil per NA hours NA (pumping or flowing)  NA Mcf of gas per NA hours.	dien	osing in	to the			PRODUC	TION				4
NA Mcf of gas per NA hours.	Well is p	lucing fro	co che	Judith	River	(po	ol) forma	ation.			
NA Mcf of gas per NA hours.	I.P. NA	ba	arrels of oil	per_NA	h	ours	NA (pumping or	flowing)			
MA NA	NA	_Mcf of gas pe		ours.				'NA			
NA barrels of water per NA hours, or NA % W.C.				A barrel	s of water per		hours, or_	NA % 1	w.c.		



Initial 10-day average production	NA	(bbl./d	ay) (if taken)	
Pressures (if measured): Tubing	NA	psi flowing;	ALA.	psi shut-in
Casing		psi flowing:	· NA	psi shut-in
GravityNA° API (corrected t	o 60° F.)			

# DRILL STEM TESTS

D.S.T. No.	From	То	Tool Open (Min.)	Shut-In	F.P.	S.I.P.	Recovery	Cushion
		None						<del></del> -
	<del></del>	ļ						
	<del>-</del> -	<del> </del>						

## **CORES**

No:	Internval	Recovered
1 1	None	
. 1 1		

## LOG RUNS

Туре	Prom	To
Dual Induction		
Focused log, Gamma	302	1185
Ray		

FORMATION RECORD
(Need not be filled out if Geologist sample description filed with Commission)

Fróm	То	SAMPLE AND CORE NO. AND DESCRIPTION	Top of Formation
		·	
	,		
		<u>,</u>	
		·	
1			
i			
1			
			.
•		(Use additional sheets where needed to complete description)	
			1

CENTURY CIL & GAS CORP

# BEFORE THE BOARD OF OIL AND GAS CONSERVATION OF THE STATE OF MONTANA

IN THE MATTER OF THE APPLICATION	
OF CENTURY OIL AND GAS CORPORATION	
FOR AN ORDER PERMITTING THE DISPOSAL	
OF PRODUCED WATER FROM THE NORTHWEST	
POPLAR FIELD, ROOSEVELT COUNTY, MONTAN	Α
TNTO THE JUDITH RIVER FORMATION.	

ORDER NO. 13-A-82

ADMINISTRATIVE

In this matter, CENTURY OIL AND GAS CORPORATION, applicant, seeks permission from the Board to dispose of water produced from its operation in the Northwest Poplar Field, Roosevelt County, Montana by injecting said water into its Goings No. 1 SWD well located in the NE NW Section 27, Township 29 North, Range 50 East, MPM, Roosevelt County, Montana. The application is complete in all respects and satisfies the provisions and requirements of Board Rules No. 36.22.1226 and 36.22.1228. All pertinent information concerning said application has been supplied to the Board and the same does not pertain to secondary recovery or a waterflood plan and it appearing to the Board that the application is in order, the following order is hereby made:

IT IS THEREFORE ORDERED by the Board of Oil and Gas Conservation of the State of Montana that the application of CENTURY OIL AND GAS CORPORATION to dispose of water produced with oil from its operations in the Northwest Poplar Field, Roosevelt County, Montana by injection into its well described above for ultimate disposal in the Judith River Formation at a depth of 1,032 feet to 1,150 feet be and the same is hereby approved.

IT IS FURTHER ORDERED that at such time as injection is commenced that the operator file its Report of Subsurface Injections through the use of Board Form No. 5 to be submitted to the Board office in Billings, Montana.

Dated at Helena, Montana this 11th day of February, 1982.

BOARD OF OIL AND GAS CONSERVATION OF THE STATE OF MONTANA

Dee Rickman, Executive Secretary

(SEAL)

Form No. 4 MAC 36-3.18(10)-\$18070 MAC 36-3.18(10)-\$18310 MAC 36-3.18(14)-\$18380

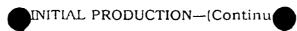
# \*

(SUBMIT IN TRIPLICATE)
TO

BOARD OF OIL AND GAS CONSERVATION OF THE STATE OF MONTANA
BILLINGS OR SHELBY

# **COMPLETION REPORT**

	+		-						O.E.	E Sol	ul
mpany C	Century O	il & Gas Co	orporati	on Leas	Robb	ins			_Well N	No. 22-1	15
7	7887 East	Belleview, Colorado	, Suite	800		ld (or Ar	ea) Nort	hwest P			
		4	NI)			(E)			opiui		
		60 ft. from									
c. 22	. T. 29N	: R. 50	E; Cou	ntyRo	osevelt			_; Elevat	ion 2	2250' Gl	A ( / L
mmence	d drilling	November	5		9 <u>82</u> ; Con	pleted	January	9		•	1983
The infe	ormation g	given herewit well at the ab	h is a com	nplete and	d correct r	ecord of	1				isfo
	as oil	well			Signed	Ach	BIL	leave	lear	ms	
	foil well.	gas well, dry hole			Title	Produc	/ tion Mana	ger			
					Date_	Januar	y 12, 198	3			
			IMPOR	RTANT ZO	ONES OF	POROS	ITY				
		(denote oil	by O. gas	by G. wa	ter by W;	state fo	rmation if				
		6028' Cha					_ to				
om							_ to				
							_ to				51
				CASIN	G RECO	RD					
Size Casing	Weight Per Ft.	Grade	Thread		ng Set	From To		Sack of Cement		Cut and Pulled fro	
8-5/8"	24	J-55	8 rd	330	the same of the sa	0,	330'	155			+
5-1/2"	14,15.5	,17 J&K-55	8 rd	6028	3	U	0020	400			
				TUBIN	G RECOI	ъ					
	Size Tubin	g Weig		Grade	Threa	d	Amount	Perforat	tions		
	2-7,	The second secon		J-55 8 rd		d	5995'				
otary too	ls were us	ed from	0'	COMPLE	TION RE	CORD	to60	30'			
able tools	s were use	d from		60281			_ to		40	-	115
otal depti	h_0030	_ft.; Plugged	back to.	0020	T.D.;	open no	le irom		to _		
-	PERFO	RATIONS			A	CIDIZED, S	HOT, SAND FR	ACED, CEM	ENTED		
Inter	rval	Number ar			erval		Amount of Material Used				
From	To COOOL 7	Size and Ty		5998'	6000'	250 0	allons 15		700	Pressure	
998'		4 JSPF, 0.1 diameter h		6002'	6006'		aced to p		100	parg	
012'		4" Spiral		6012'	6022'						
						(1f	P&A show plug	(s above)	1		
				INITIAL	PRODUC	TION					
ell is pro	oducing fro	m Charl	es "C"		(po	ol) form	ation.				
95	b	arrels of oil	per24	h		oumping o	r flowing)				
0	Met of gas pe	er 24 be	ours.			pamping 0					
	oner or gas pe	250	barrels	of water per.	24	hours, or	7.2 % (	w.c.			



Initial 10-day ave	rage production	(bbl./da	y) (if taken)	
-	asured): Tubing	psi flowing;		psi shut-in
•	Casing			psi shut-in
Committee 40.5	° API (corrected to 60° F	.)		

# DRILL STEM TESTS

	From Te	Tool Open	Smuth	F.P.	S.I.P.	Recovery	Cushion
ì	5995' 603	30' 240	240	990	2894	2450' oil, 108' water	
						1200 cc oil, 1800 cc	
						water	
den					····		

CORES				
Recovered				

### LOG RUNS

Туре	From	To
DLL/MSFL/GR/Caliper	Surface	6009'
FDC/CNL/GR/Caliper	4030'	6030'

## FORMATION RECORD

(Need not be filled out if Geologist sample description filed with Commission)

From	To.	SAMPLE AND CORE NO. AND DESCRIPTION	Top of Formation
		Geologist sample description previously filed with Commission	

(Use additional sheets where needed to complete description)

 $k_g$ 



# Century Oil & Gas Corporation

THE FOREST CONTRACTOR

Phone 303 694 1533 111 July 4322037

December 22, 1982

Mr. Thomas Richmond State of Montana Board of Oil & Gas Conservation 2535 St. John's Avenue Billings, Montana 59102

Re: Flowline Installation

Robbins #22-15

SW SE Section 22-T29N-R50E Northwest Poplar Field Roosevelt County, Montana

Dear Tom:

Century Oil & Gas Corporation respectfully requests Board approval to install 3" fiberglass flowline from our Robbins #22-15 well to our Goings #1 SWDW and commence disposal of produced Charles "C" formation water into the Judith River formation. A Sundry Notice, flowline installation plat, water analyses, and flowline specification sheet are attached for your information in support of our request. Should you have any questions regarding our plans, please do not hesitate to contact me.

Very truly yours,

CENTURY OIL & GAS CORPORATION

Jack B. McWilliams Production Manager

JBM/kw Attachments Form No 2

NOTICE THIS FORM BECOMES A PERMIT WHEN STAMPED APPROVED BY AN AGENT OF THE BOARD.

#### (SUBMIT IN QUADRUPLICATE)

TO

#### BOARD OF OIL AND GAS CONSERVATION OF THE STATE OF MONTANA

BILLINGS OR SHELBY

MAC 36-3.18(10)-\$18020 MAC 36 3.18(10) \$18030 MAC 36 3.18(10)-\$18140 MAC 36-3.18(10)-\$18170 MAC 36-3.18(10)-\$18200 MAC 36-3 18(10)-S18310 MAC 36-3.18(10)-\$18330 MAC 36-3.18(14)-S18380

#### SUNDRY NOTICES AND REPORT OF WELLS

Notice of Intention to Drill	Subsequent Report of Water Shut-off
Notice of Intention to Change Plans	Subsequent Report of Shooting, Acidizing, Cementing
Notice of Intention to Test Water Shut-off	Subvequent Report of Altering Casing
Notice of Intention to Redrill or Repair Well	Subsequent Report of Redrilling or Repair
Notice of Intention to Shoot, Acidize, or Cement	Subsequent Report of Abandonment
Notice of Intention to Pull or Alter Casing	Supplementary Well History
Notice of Intention to Abandon Well	Report of Fracturing

Following is a notice of intention to do work! on land honwa described as follows: l leased LEASE Robbins

..... MONTANA (State)

22

Roosevelt (County)

MPM

Northwest Poplar

(Field)

The well is located ... 660

(Township)

29N

(Meridian)

1982

ft. from E time of Sec. 22

LOCATE WELL SITE ACCURATELY ON PLAT ON BACK OF THIS FORM.

The elevation of the ground or K.B. above the sea level is

READ CAREFULLY

Well No. 22-15

#### DETAILS OF PLAN OF WORK

READ CAREFULLY

(State names of and expected depths to objective sands; show size, weights, and lengths of proposed easings, cementing points, and all other important proposed work, particularly all details of Shooting, Acidizing, Fracturing.)

#### DETAILS OF WORK RESULT

Install approximately 1500' of 3" fiberglass flowline between Robbins #22-15 well pad (SW SE Section 22-T29N-R50E) and the Goings #1 SWDW (NE NW Section 27-T29N-R50E) to handle 300 barrels per day of produced Charles "C" formation water. Water to be discharged into the flowline at 40 psig (treater pressure). Flowline to be buried at 6' depth and high fluorescent marker tape to be placed 2' above line to indicate a buried flowline. Water analyses, flowline installation plat, and fiberglass specification sheet attached.

Approved subject to conditions on reverse of form

Date

By

District Office Agent

Title

Century Oil & Gas Corporation

Production Manager

7887 East Belleview, Suite 800 Englewood, CO 80111

HUARD USE ONLY AT MEET NUMBER







withis form to be supported by the appropriate District t METAL SPIRE COST AND DISCOMERGE COST APPROVADE CONTRACTOR OF CALLS AND AND AND THE STA

Compan

+ +.H

# ROBBINS #22-15 SALT WATER DISPOSAL FLOWLINE SPECIFICATIONS

MANUFACTURER: A. O. Smith - fiberglass

SIZE: 3.50" OD

3.36" ID

WALL THICKNESS: 0.070"

WEIGHT PER FOOT: 0.6#

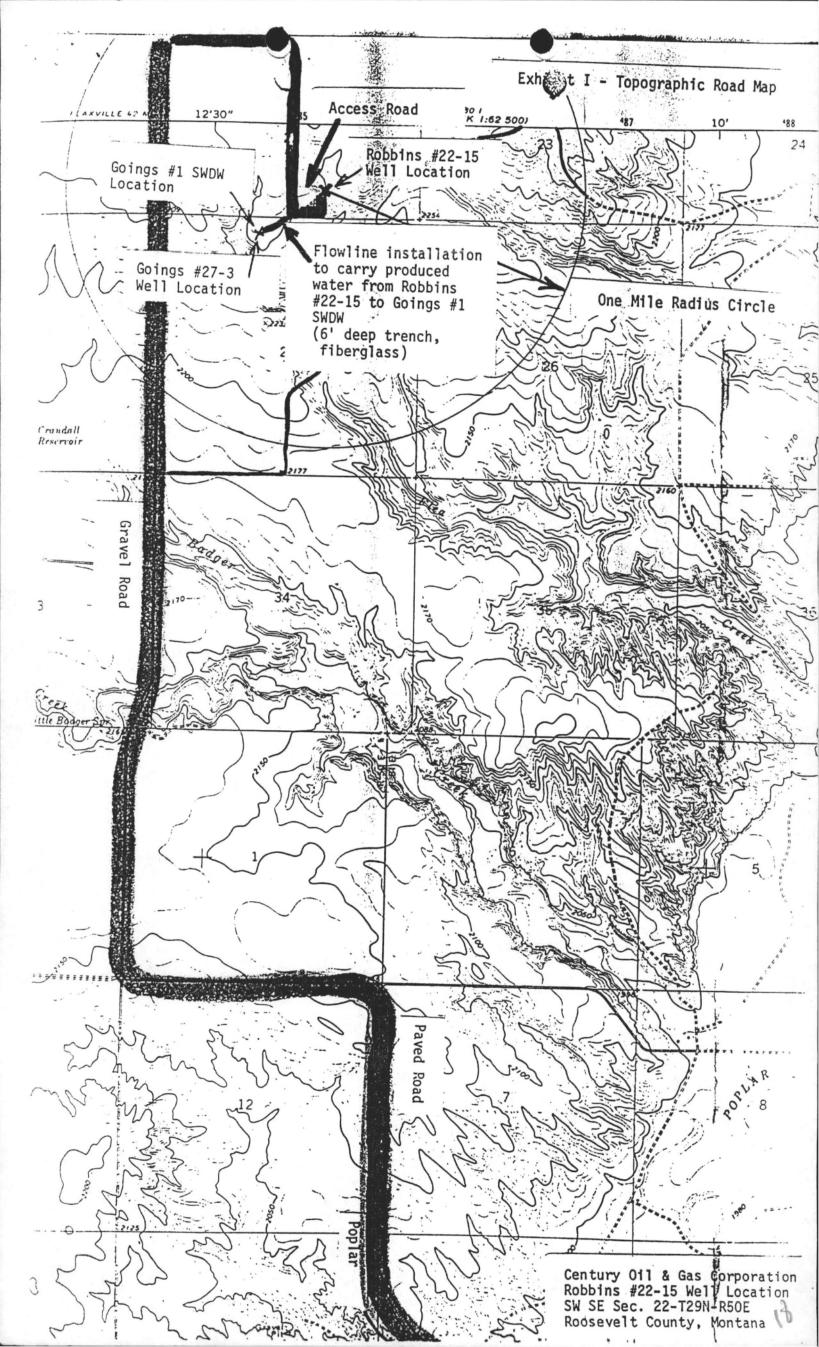
PRESSURE RATING: cyclical = 200 psig

static = 300 psig

TEMPERATURE RATING: 2100 F

Subject fiberglass flowline installed in 6' deep trench with high fluorescent marker tape (6" in width) installed 2' above flowline for future identification purposes. Produced water (approximately 300 BWPD) will be discharged and measured from treater at Robbins lease battery at 40 psig and flowed approximately 1500' to the Goings #1 SWDW for disposal into the Judith River formation. Charles "C" water will be produced from the Robbins #22-15 compatible with that of the Goings #27-1 and the Goings #27-3 wells.

JBM/kw 12/23/82





# Century Oil & Gas Corporation

Suite 800 7887 E. Belleview Avenue Englewood, Colorado 80111

Phone 303 694-1533 HT Telex 4322037

December 21, 1982

United States Department of the Interior Dickinson Sub-District Office Minerals Management Service P. O. Box 1838 Dickinson, North Dakota 58601

Re: Sundry Notice
Off Lease Water Disposal
Goings #1 SWDW
NE NW Section 27-T29N-R50E
Northwest Poplar Field
Roosevelt County, Montana

#### Gentlemen:

Century Oil & Gas Corporation respectfully requests approval to initiate off lease disposal of produced water from our Robbins #22-15 well (SW SE Section 22-T29N-R50E, Roosevelt County, Montana) into our Goings #1 SWDW (NE NW Section 27-T29N-R50E, Roosevelt County, Montana). A Sundry Notice with accompanying water analyses are attached in compliance with NTL-28 Section II (2).

The Goings #1 SWDW was placed in operation March 22, 1982, to serve two existing Goings producers, the Goings #27-1 and the Goings #27-3. Through November, 1982, approximately 425,000 barrels of produced Charles "C" water had been disposed into the Judith River formation in the Goings #1 SWDW.

Century is currently completing its Robbins #22-15 (SW SE Section 22-T29N-R50E) in the Charles "C" formation, the same formation producing in our Goings #27-1 (NE NE Section 27-T29N-R50E) and our Goings #27-3 (NE NW Section 27-T29N-R50E). In that the Robbins #22-15 is located 1500' northeast of the Goings #27-3 and 1800' northwest of the Goings #27-1, Charles "C" produced waters from all three wells should be compatible.

United States Department of the Interior December 21, 1982 Page Two

We would appreciate your early attention to this request so that we can minimize use of earthen pits for temporary water containment on the Robbins lease. We plan to install approximately 1500' of fiberglass flowline from the treater at the Robbins tank battery to the Goings #1 SWDW. Please do not hesitate to call should you have questions regarding our Sundry Notice.

Very truly yours,
CENTURY OIL & GAS CORPORATION

Jack B. McWilliams Production Manager

JBM/kw Attachments

Et. Peck Al 14-20-0256-3601

5. LEASE

# UNITED STATES DEPARTMENT OF THE INTERIOR

DEL MILLER DE LA CONTRACTOR DE LA CONTRA	
GEOLOGICAL SURVEY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME Allotted Assiniboine-Sioux
SUNDRY NOTICES AND REPORTS ON WELLS  Do not use this form for proposals to drill or to deepen or plug back to a different eservoir, Use Form 9-331-C for such proposals.)	7. UNIT AGREEMENT NAME
eservoir, Use Form 9-331-C for such proposals.)	8. FARM OR LEASE NAME
1. oil m gas	Robbins
well (A) well other	9. WELL NO.
2. NAME OF OPERATOR	22-15
Century Oil & Gas Corporation	10. FIELD OR WILDCAT NAME
3. ADDRESS OF OPERATOR	Northwest Poplar
7887 E. Belleview, #800, Englewood, CO 80111	11. SEC., T., R., M., OR BLK. AND SURVEY OR
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)	AREA Section 22-T27N-R50E
AT SURFACE: (SW SE) 660' FSL, 2030' FEL of AT TOP PROD. INTERVAL: Section 22-T29N-R50E	12. COUNTY OR PARISH 13. STATE ROOSEVELT Montana
AT TOTAL DEPTH:	14. API NO.
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE,	25-085-21379
REPORT, OR OTHER DATA	15. ELEVATIONS (SHOW DF, KDB, AND WD) 2252' GR
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	(NOTE: Report results of multiple completion or zone change on Form 9–330.)
CHANGE ZONES	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Century Oil & Gas Corporation respectfully requests approval to commence disposal of produced Charles "C" formation water into the Goings #1 SWDW (NE NW Section 27-T29N-R50E, Roosevelt County, Montana). Daily disposal volume is estimated to be 300 barrels. Produced water analyses from the Robbins #22-15 as well as the existing producers on the Goings lease, the Goings #27-1 and the Goings #27-3, are attached for your use in reviewing our request. Additionally, a plat indicating the flowline installation from the Robbins #22-15 to the Goings #1 SWDW is attached for your review.

Subsurface Safety Valve: Manu. and Typ	e		Set @	Ft.
18. I hereby dertify that the foregoing is	true and correct  Land LEProducti	on Manager DATE	December 21,	1982
	(This space for Federal o	or State office use)		
APPROVED BY CONDITIONS OF APPROVAL, IF ANY	1111	DATE	·	-

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_	_		L	_	+	
-	_		t			+

# (SUBMIT IN TRIPLICATE) TO

BOARD OF OIL AND GAS CONSERVATION OF THE STATE OF MONTANA
BILLINGS OR SHELBY

# COMPLETION REPORT

Company	Century Oi	1 & Gas Co	orporation	Les	ase Goin	gs		- 10 TK	Well No. 27-1
Address 7	17 17th St	., #1770,	Denver, C	0 80202	Field	d (or Area	a) North	nwest Poplar	-
The well is le	ocated 660	ft. from	(N) n (S) line and	660	ft. from	(E) n (W) lin	ne of Sec.	27	
Sec. 27	; T	29N :	R. 50E	: County	Roose	velt		; Elevation	2227' GR
								, Dictation	(D.F., R.B. or G.L.)
Commenced	drilling		ebruary		82 ; Con	pleted A	pril		, 19
of the well a	at the above of	date.	s a complete	and correct	record of	the well.			ge is for the conditi
Completed a	as Oil Wel	l, gas well, dry	halai		Signed	Tell !	2110	epilles	es
	(ou wer	i, gas well, dry	noie)		Tine	Product	ion Manag	ger	
					Date	April 14	1, 1982		
									7116
		(denote		RTANT ZO	The state of the s				
From 5	993' 5		oil by O, ga arles "C"	7				known)	
			11103 0						
					From		to		
From	to				From.		to		
				CASINO	G RECOR	KD CD			
Size Casing	Weight Per Ft.	Grade	Thread	Casing S	et	From	То	Sacks of Cement	Cut and Pulled from
8-5/8"	24#	J-55	ST&C	357'		0'	357'	300	
5-1/2"	15.5 & 1	7# J-55	LT&C	6062'		0'	6062'	550	
J-1/2	10.0 4 1	1	1				0002	1 330	
	TANGEROUS			TUBINO	RECOR	ED .			
	Tub	oing 1	Weight Per Ft.	Grade	Thread	Am	ount	Perforations	
	2-7	/8"   6	5.5#	J-55	EUE	1 5956	5'	None	
				COMPLET	ION REC	ORD			
Rotary tools	were used f	rom Surt	face				6067		
Cable tools v	were used from	n				t	0		
Total depth_	6067 f	t.; Plugged	back to 61	014'	_T.D.; O	pen hole	from	t	0
	PERFOR	ATIONS			A	CIDIZED, SH	OT, SAND F	RACED, CEMENTE	D
Inte From	To	Number Size an	er and	From	erval To		Amount	of Used	Pressure
5993'	5998'		JumboJet	5993'	5998	500	gal 15%		200
					-				4
						1 11 2	20118	2012	AND REPORT OF
				INITIAL P	PODUCT		P&A show p	lugs above)	
				INITIALI	KODUCI	ION			
Well is prod	lucing from_	Charles			_(pool) i	formation.			
. P3	351	barrels of oil	per24	ho	ours flo				
		Ad at any	- 24			nping or flor	wing)		
17		Mcf of gas per rels of water		hour	s. ours, or_	2	Of.	W.C.	
	Var		7		VER)		70		
				,					

# INITIAL PRODUCTION—(Continued)

|--|

nitial 10-day average production	(bbl./day) (if taken)	
Pressures (if measured): Tubing		psi shut-i
	psi flowing;	psi shut-i
Gravity 43 API (corrected to	60° F.)	

# DRILL STEM TESTS

D.S.T. No.	From	то	Tool Open (Min.)	Shut-In	P.P.	8.1.P.:	Хесочегу	Çushion
<u> </u>	5997'	6013'	150	180	36-636	2961	1472' fluid, 186' oil, 186'	None
							OCM, 93' WCM, 1007' water	
					<u> </u>			
		<b> </b>				- <del> </del>		
	 	·				- <del> </del>		
				-	<del>- </del>	<del>                                     </del>		
		<del> </del>			<del> </del>	<del> </del>		

# CORES

50	o Interval Reco		
		·	
		•	
	<del></del> .		

# LOG RUNS

Туро	Fron	То
DLL Micro SFL	6067'	ე'
FDC/CNL/GR	60671	40671
FDC/CNL/GR	6067'	4067'

# FORMATION RECORD

Prom	To	SAMPLE AND CORE NO. AND DESCRIPTION	Top of Formation
		Geologist sample description filed with Commission	
-			
}			•
1.1	ı		
7.			
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ľ			•
'			
			•

#### TEN POINT WELL PROGRAM

OPERATOR: Century Oil & Gas Corporation

LEASE & WELL NAME: Goings #1 Salt Water Disposal Well

LOCATION: NE NW Section 27-T29N-R50E

COUNTY & STATE: Roosevelt County, Montana

Geologic name of the surface formation: 1.

Tongue River Glacial Till

2. Estimated tops of important geologic markers:

Judith River

1030'

T.D.

1200'

Estimated depths at which anticipated water, oil, gas, or other mineral-3. bearing formations are expected to be encountered: ? what about SS above Judith? Theyorterop. Mar gratiqued of casing program:

4. Proposed casing program:

8-5/8", J-55, 24# per foot, set at 300'±.

4-1/2", J-55, 9.6# new to T.D. (1200').

Lessee's or operator's minimum specifications for pressure control equipment which is to be used, a schematic diaphram thereof showing sizes, pressure ratings (or API series), and the testing procedures and testing frequency:

Not applicable - no pressure anticipated to 1200'.

Type and characteristics of the proposed circulating medium or mediums to be employed for rotary drilling and the quantities and type of mud and weighting material to be maintained:

Circulating medium to be fresh water from our Goings #27-3 Charles "C" producer.

7. Auxiliary safety equipment to be used:

None.

8. Testing, logging, and coring programs to be followed:

Completion will consist of running a  $\int -1/2$ " casing string to 1200', logging the Judith River with a cased hole Gamma Ray Neutron log and jet perforating the Judith River. A small acid wash may be required to cleanup the zone to take fluid.

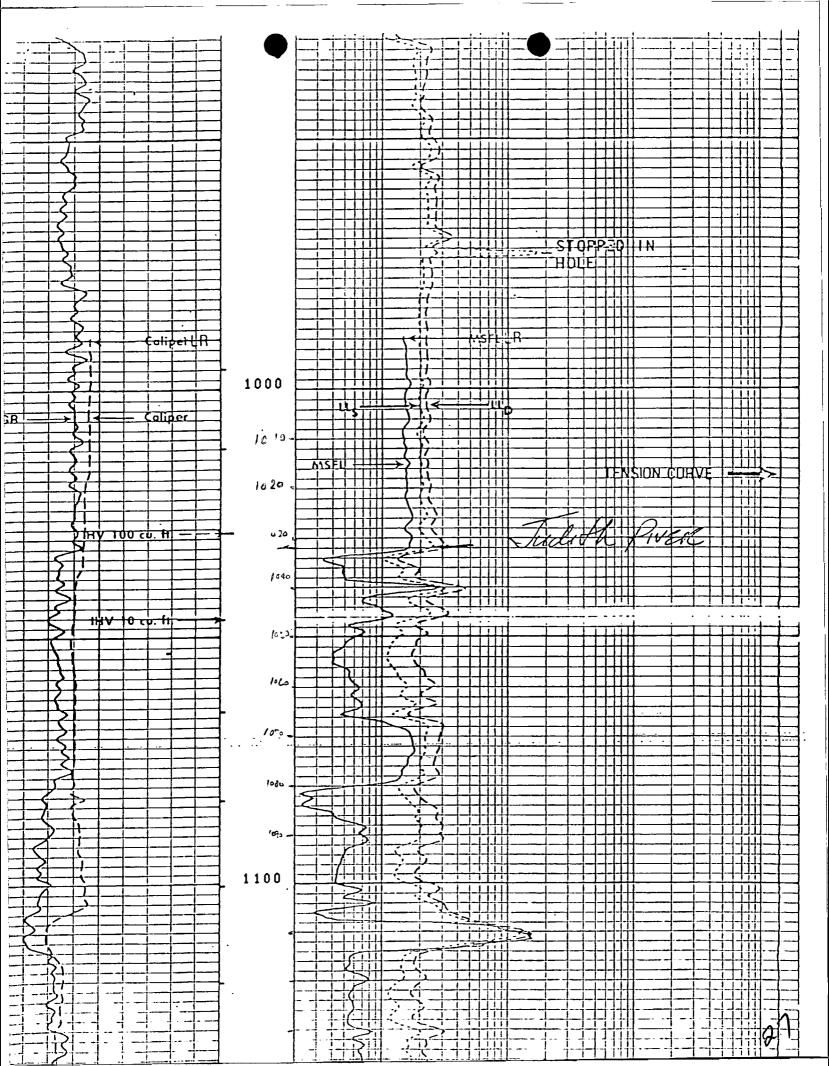
9. Any anticipated abnormal pressures or temperatures expected to be encountered or potential hazards such as hydrogen sulfide gas, along with plans for mitigating such hazards:

No abnormal pressures or temperatures are anticipated. Bottom hole temperature is assumed to be approximately  $75^{\circ}$  F. No potentially hazardous hydrogen sulfide gas is expected.

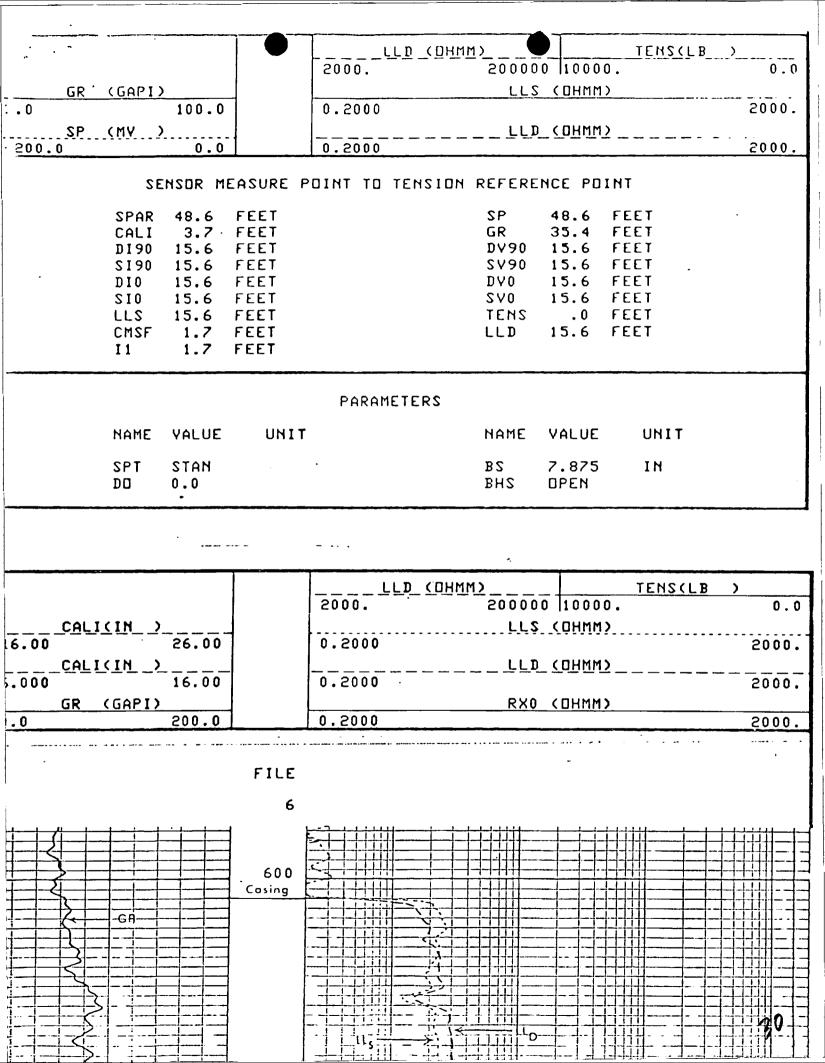
10. Anticipated starting date and duration of the operations:

Anticipated spud date is January 20, 1982. Drilling operations should take approximately two days. Completion operations should begin soon after the well is drilled and take approximately two days.

052 (0) 61 10 (0) 61 M (C) 026 (0) 202 11700 10=	15 (a	websured from 10-10-81	ROOS AND COMPANY.CENTURY_OIL AND_GAS_CORPORATION  SEC_27-29N -50E  GOINGS_NO.27-3  CENTURY COUNTY_ROOSEVELTSTATE_MONTANA  Other Services:	
O.  ider No. el  PPM CL  P.M.  ENT. DATA	The well name, location and bore  ONE  243397  FULL  185000	ehole reference data were fu	SCALE CHANGES Type Log Depth UPHOL GR 5397 0-200 0 5397 45/-1	0-100
ENI DAIA:  tel  t.  d.  de  rce  b:oror  el  t.	NLM-EC-439 PGC-G-105 PDH-E-219 PGS-EC-230 GSR-J-5076 SFI-106-1309 NLM-EC-439 CNC-A-1339 NSR-F-2028 CNE-AE-1634		REMARKS: IENSONMEASUREPOILOGINIERYALSCHOSE	<del></del>
r Ponel order (TTR) oder (DZE)	SGC-JC-2138 CPU-CBA-540 MTU-D-2745 CMU-CAA-362 CMD-BAB-195 ECCENTERED			24



		,	~~~			<del></del>				<del></del>		
Gentinageer DUA CANT			ig ig	200 0-100			_	POINT: -7"	CH 5" C!!LY	LR AT 9901		
COMPANY CENTURY OLL AND GAS CORE  WELL GOINGS NO. 27-3  FIELD WILDCAT  COUNTY ROOSEVELI STATE MONIA		ا ا ا	LOG Depth	GR 5400 0-			REMARKS:	JEHSJON MEASURE P	R A	CALIPER AND MSFL		
HE/NH NO SEC TWO SOLD THE SOLD	Other Services: FDC/CNL/GR INT/BHC/GR	data were furnis	1,1				A	<u> </u>	5 3			
Permanent Datum:	D.F G.L. 2246	d borchole reference							ER			
th-Logger (Schl.) 7912  Lini. Log Interval 7911  Top Log Interval 604  Casing-Driller 8-5/8@ 615 @ @  Casing-Logger 604  Bit Size 7-7/8  Type Fluid in Hole SALT MUD	<u> </u>	me, location an	97	30	1-867	DLC-55-868 SPE-55-19/3	-721	CPU-CAA-450 HTU-D-2745				00/0-500
Dens. Visc. 10.4 43  pH   Fluid Loss   6.5   8 ml   ml    Source of-Sample   MUD TANK  Rm @ Meas. Temp.   079 @ 61 'F   @ 'F   @  Rmf @ Meas. Temp.   052 @ 61 'F   @ 'F   @  Rmc @ Meas. Temp.   119 @ 61 'F   @ 'F   @  Source: Rmf   Rmc   M   C	.t		2433	185000		DLC-1 SPE-F			8.	الخ اعما	P   28   28   29   29   29   29   29   29	102/200 100 50 0 - 100/0
Rm (W BHT	'F @ 'F		ر الم الم	ď	VI DAIA	<u>ក</u> ្		DIE :		1	120.4P	Control Contro



WELLBORE DIAGRAM GOINGS #1 SWDW NE NW Sec. 27-T29N-R50E Roosevelt County, Montana

2246 GR 858" 24# J-55 e 300' cemented to surface w/ 200 sacks Class'G' 27/8" 6.5# J-55 e 1000' Judith River Tope 1030' Packer e 1000 Judith River perforations 41/2" 9.5# J-55 e 1200'
cemented to surface w/ 200 sacks Class'G'

Exhibit X

### OPERATING DATA

1. Average daily rate of fluids injected = 800 BWPD

Marc Kate

- 2. Average daily injection pressure = 500 psig Mark Process
- 3. Nature of annulus fluid = 19 bbls fresh water containing
  10 gallons Nalco 3900 (corrosion inhibitor, oxygen scavenger)
- 4. Class 1 wells only = not applicable
- 5. Source and analysis of injection fluid = produced formation water from Goings #27-3 well and 7 05 = 33,65 mill Robbins #22-15 well (analyses attached)



# REPORT OF ATER ANALYSIS

Company

Century Oil & Gas

Poplar, Montana

Robbins #22-15 Sample Marked

Date March 10, 1983 Analysis No.

Sampling Date March 10, 1983 Date Sample Rec'd. March 10, 1983

			D COLUTE AC	COMPOLINIDS
DISSOLVED SOLIDS			RESULIS AS	COMPOUNDS .
Cations	mg/l	meq/l		mg/I
Sodium, Na (Calc.)	15,525	675	as NaCl	
Calcium, Ca	1,000	50	as CaCO <sub>3</sub>	2,500
Magnesium, Mg	316	26	as CaCO <sub>3</sub>	1,300
Barium, Ba	. 0	0	as BaSO <sub>4</sub>	0
Cations Total	16,841	751		
Anions				
Chloride, Cl	25,494	719	as NaCl	42,000
Sulfate, SO <sub>4</sub>	1,136	24	as Na <sub>2</sub> SO <sub>4</sub>	1,680
Carbonate, CO <sub>3</sub>	0	0	as CaCO <sub>3</sub>	0
Bicarbonate, HCO <sub>3</sub>	512	8	as CaCO <sub>3</sub>	420
<u> </u>				
Anions Total	27,142	751		
Total Dissolved Solids (Calc.)	43,983			
Total Iron, Fe	30.2		as Fe	30.2
Acidity to Phenolphthalein, CO <sub>2</sub>	132		as CaCO <sub>3</sub>	300

**OTHER PROPERTIES** 

Specific Gravity ..... Turbidity (JTU) ......

Sulfide, as H<sub>2</sub>S

6.8

(present)

CaCO3 STABILITY INDEX

@ 70° F.

@120° F.

@160° F.

Method of Stiff & Davis

Remarks: D. Kasowski cc:

H. Pederson

/mg

NALCO CHEMICAL COMPANY VISCO CHEMICALS

P. O. BOX 87 - SUGAR LAND, TEXAS 77478



# REPORT OF WATER ANALYSIS

Company

Century Oil & Gas Poplar, Montana

Sample Marked

GOINGS

Date January 2, 1982 Analysis No. Sampling Date January 2, 1982 Date Sample Rec'd. January 2, 1982

DISSOLVED SOLIDS			RESULTS AS	COMPOUNDS.
Cations	mg/l	meq/l		mg/l
Sodium, Na (Calc.)	11,973.8	520.6	as NaCl	· · · · · · · · · · · · · · · · · · ·
Calcium, Ca	800	40	as CaCO <sub>3</sub>	2,000
Magnesium, Mg		12	as CaCO <sub>3</sub>	
Barium, Ba	. 0	0	as BaSO <sub>4</sub>	
Cations Total	12,919.6	572.6		
Anions				
Chloride, Cl	19,424	547.8	as NaCl	32,000
Sulfate, SO <sub>4</sub>	770.6	16	as Na <sub>2</sub> SO <sub>4</sub>	1,140
Carbonate, CO <sub>3</sub>	0	0	as CaCO <sub>3</sub>	0
Bicarbonate, HCO <sub>3</sub>	536.8	8.8	as CaCO <sub>3</sub>	440
Anions Total	20,731.4	572.6		
Total Dissolved Solids (Calc.)	33,651			
Total Iron, Fe	1.2		as Fe	1.2
Acidity to Phenolphthalein, CO <sub>2</sub>	404.8		as CaCO <sub>3</sub>	920
, , , , , , , , , , , , , , , , , , , ,			•	

OTHER PROPERTIES

Specific Gravity .....

Turbidity (JTU) ..... Sulfide, as H<sub>2</sub>S

1.024 54

Present

CaCO<sub>3</sub> STABILITY INDEX @ 70° F.

@120° F.

@ 160° F.

Method of Stiff & Davis

Remarks:

cc:

D. Kasowski

M. Olson

/mg

NALCO CHEMICAL COMPANY VISCO CHEMICALS

P. O. BOX 87 . SUGAR LAND, TEXAS 77478

NALCO trademarks of Nalco Chemical Company.

# ASTRO-CHEM SERVICE LABORATORY

4102 2nd Ave. West

Williston, North Dakota 58801

Phone 701-572-7355

P. O. Box 972

WATER ANALYSIS REPORT

SAMPLE NUMBER: W-81-6268

DATE OF ANALYSIS 114 7/81

COMPANY: CENTURY OIL & GAS

CITY: DENVER

STATE: CO

WELL NAME AND/OR NUMBER: GOINGS 27-3

DATE RECEIVED 11/ 7/81

DST NUMBER:.

SAMPLE SOURCE: 400 BBL TANK

LOCATION: NUNU

OF SEC:27

TUN: 29N

RNG:50E

FORMATIO(:CHARLES C

DEPTH: 6022-38

DISTRIBUTION: CENTURY - DENVER CO

RESISTIVITY@77∘F= .167 OHH-METERS V

PH= 6.77

SPECIFIC GRAVITY@77°F=1.025

H2S=P0S

TOTAL DISSOLVED SOLIDS,(CALCULATED)= 42100 MG/L ✓

SODIUM CHLORIDE (CALCULATED)= 40200 MG/L

CATIONS ANIONS

	MEQ/L	MG/L,		MEQ/L	MG/L /	
CALCIUM -	84.0	1383	CHLORIDE	688.3	24400	
MAGMESIUM	21.0	255	CARBONATE	, 0	0	
SODTUM T.	598.1	13750	BICARBONATE	7.8 .	476	
CHROHIUM	. 0	. 0	SULFATE	32.0	1538	
IRON	. 0	. 1	NITRATE	. 0	0	
BARTHM	. በ	. 0				

		WATER ANALYSIS PATTERN	
NAZ	40	15	CL/ 40
CAZ	ų	21 2	HC03/ 4
HG/	ц	5 8	S04/ 4
FEZ	14	00	C03/ 4
		MEQ/L	

PEMARKS: .



Sample Marked

# REPORT OF WATER ANALYSIS

Judith River

Company Reading & Bates Poplar, Montana

Hall S.W.D.

Date September 10, 1981 Analysis No. Date

Sampling Date September 10, 1981 Date Sample Rec'd September 10, 1981

			•	•
DISSOLVED SOLIDS			RESULTS AS	COMPOUNDS
Cations	mg/ <i>l</i>	meq/I		mg/I
Sodium, Na (Calc.)	4,215.9	183.3	as NaCl	
Calcium, Ca	136	6.8	as CaCO <sub>3</sub>	340
Magnesium, Mg	34	2.8	as CaCO <sub>3</sub>	140
Barium, Ba	. 0	0	as BaSO <sub>4</sub>	0
Cations Total	4,385.9	192.9		
Anions				
Chloride, Cl	6,677	188.3	25 NaCl	11,000
Sulfate, SO4	64.9	1.4	as $Na_2SO_4$	96
Carbonate, CO <sub>3</sub>	0	0	as CaCO <sub>3</sub>	0
Bicarbonate, HCO3	195.2	3.2	as CaCO <sub>3</sub>	160
Anions Total	6,937.1	192.9	•	
	•			
Total Dissolved Solids (Calc.)	11,323		as Fe	6.3
Total Iron, Fe	•		as CaCO <sub>3</sub>	
•			•	
OTHER PROPERTIES			C2CO3 STABILITY	INDEX
pH	7.4		@ 70°F.	·
Specific Gravity			@120° F.	
Turbidity (JTU)	872		@160° F.	

Remarks:

A. Anderson cc:

M. Olson

/mg

.21

NALCO CHEMICAL COMPANY VISCO CHEMICALS

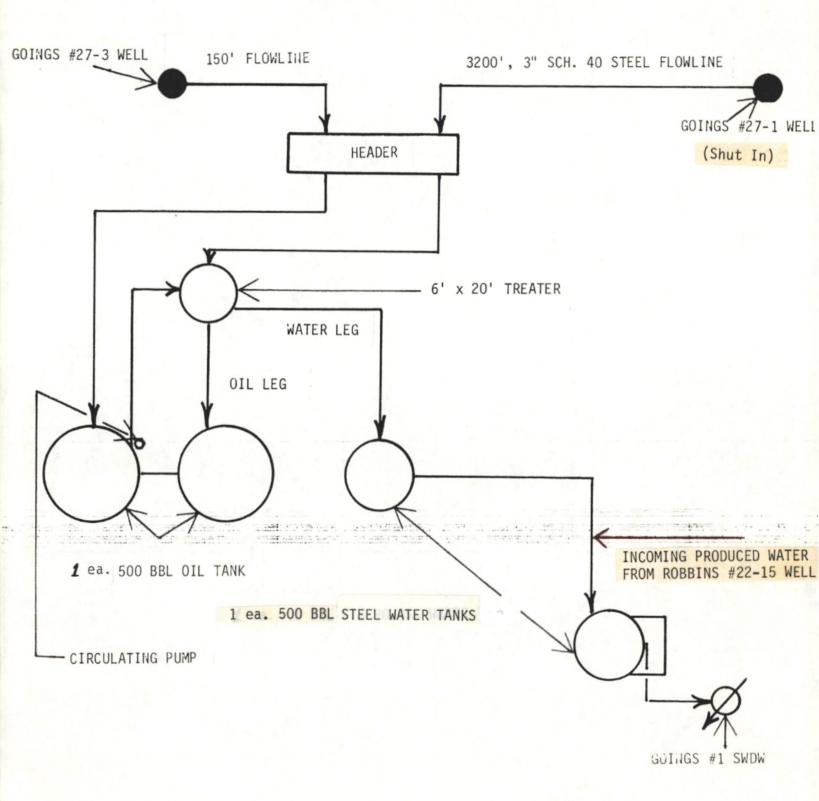
Method of Stiff & Davis

P O HOX 67 . SUGAR LAND, TEXAS 77478

Printer of Natio Chemical Company

Sulfide, as H<sub>2</sub>S

FLOW DIAGRAM OF PRODUCED
FLUID FROM GOINGS #27-3
AND ROBBINS #22-15 WELLS
THROUGH DISPOSAL AT
GOINGS #1 SWDW



CENTURY OIL & GAS CORPORATION Drilling Report

CENTURY GOINGS #1 SWDW
Roosevelt Co., MT (N.W. Poplar)

Salt Water Disposal Well

Prop. TD: 1200' Judith River Location: 528' FNL, 2065' FWL (NENW) Section 27-T29N-R50E

Elevation: 2246' GR

API Well Number: 25-085-21371

300'. 12½" hole, ran 7 joints - 8-5/8", 24#, K-55, ST&C casing landed at 300' GR. Cemented with 250 sacks class G cement containing ½#/sack Cello-Seal, 3% CaCl - plug down 9:45 pm; WOC 12 hrs. CWC \$ 16,750.

03/12/82 Drilling at 910' at 50' per hour with fresh water mud.

03/13/82 Drilling at 1100'.

03/14/82 Drilling at 1176'.

03/15/82 WOC. Drilled to 1187' (GR) - RU Dresser Atlas - oil could not get below 1127' (GR), pulled out oil, ran in hole with bit and circulated on bottom for one hour. Tripped out ran back in with OIL/GR/SP to 1185', logged 1185' to surface, rigged down Dresser Atlas, rigged up and ran 29 joints 5½", 14#, J-55, ST&C casing with Baker guide shoe, float collar and 12 centralizers, landed casing at 1186' (GR) and cemented with 300 sacks Class 'G', 3% NaCl containing ½#/sack Celloseal. Good circulation throughout, bumped plug at 7:30 am to 1500 psi. CWC \$ - 46.019.

03/18/82 Moving in completion unit.

03/19/82 MIRU Pool Well Service Rig #428. NU Larkin 5½" x 2-7/8" tubing head, picked up 4-3/4" bit and casing scraper, RIH with same and 37 joints 2-7/8" tubing. Tagged PBTD at 1142' (GR). POOH with tubing and SDFN at 4:30 pm. CWC \$51,919.

CENTURY OIL & GAS CORPORATION Drilling Report

CENTURY GOINGS #1 SWDW Roosevelt Co., MT (N.W. Poplar) PBTD: 1142' GR

RU Dresser Atlas, RIH with Gamma/Collar Correlation log, correlated to 03/20/82 open hole DIL and perforated 1028' - 1038', 1080' -1096', 1108' -1116' with 2 JSPF using the 4" Jumbo Jet casing gun (71 total holes). tubing. Displaced hole with 19 bbls. fresh water containing 10 gallons Nalco 3900 (corrosion inhibitor, oxygen scavenger) followed by 3 bbls. saltwater. Set packer at 976' (GR) with 20,000# tension. acidize perfs with 1000 gallons Western spearhead acid, max rate 10 BPM @ 1800 psig; ISIP = 400 psig, 5 min. = 250 psig. RU and swab making 13 runs, recovered 38 bbls. fluid (total load of 31 bbls. recovered). Pumped the following rates and pressures to establish injectivity:

> 1.6 BPM (2304 BPD) @ 300 psig 2.4 BPM (3456 BPD) @ 500 psig 4.8 BPM (6912 BPD) @ 750 psig 6.7 BPM (9648 BPD) @ 1000 psig

ISIP = 400 psig, 5 min. = 400 psig. CWC \$ 67,500.

- Rig down and move off Pool Rig #428. Deliver and set disposal 03/21/82 facility equipment to include 400 bbls. fiberglass tank, 1 -Wheatley plunger pump model P - 323 with 21/2" plungers, skid, Murphy hi - low level switchgauges. Begin connecting equipment. CWC \$83,500.
- Continue tying in facility to initiate disposal operation 03/22/82 Monday noon. CWC \$ 85,500.
- 03/23/82 Disposal facility placed in operation at 12:00 noon (3/22/82). Waukesha VRG-220 supplying, power until electricity can be obtained late April, 1982. Equipment running smoothly at approximately 2.4 BPM (3500 BPD) at 450 psig. FINAL REPORT CWC = \$89,500.

# UNITED STATES SUBMIT DEPARTMENT OF THE INTERIOR

SUBMIT IN DUPLIC.

(Sec other instructions on reverse side) Form approved. Budget Bureau No. 42-R365.6.

5. LEASE DESIGNATION AND SERIAL NO.

	G	EOLOGIC	AL SURVE	Υ					
WELL CO	MPLETION	OR RECO	MPI ETION	REPORT	AND L	7G.*	i		TTER OR TRIBE NAME
In. TYPE OF WEL									<u>siniboine-Siou</u>
	WELL	GAS WELL	DRY .	Other Wal	er Dispo	osa ı	7. UNIT AGE	REMENT	MAME
L TYPE OF COM	PLETION: WORK DEEP- OVER DEEP-	DACK (	DIFF.	Other			S. FARM OR	LEASE	NAME
2. NAME OF OPERAT							Going		
Century O	oil & Gas Co	rporation					9. WELL NO	) <u>.</u>	
3. ADDRESS OF OPE		6 : 4 00	0 5 - 1 - 1	- Color		111	#1 SW		
	Belleview,					111	1		, OR WILDCAT
4. LOCATION OF WEI	LL (Report location	clearly and in	accordance with a	ny State requi	rementa).				Poplar
	28' FNL, 206 erval reported belo		ection 27,	T29N-R50	ЭΕ		A	•	7, T29N-R50E
At total depth									
			14. PERMIT NO	 o.	DATE ISSUED		12. COUNTY PABISH	OR	13. STATE
							Rooseve		Montana
15. DATE SPUDDED	16. DATE T.D. REA	CHED   17. DAT	E COMPL. (Ready	to prod.)   16	PIEVATIONS	(DE RER	RT, GR, ETC.)	19. 5	LEV. CASINGHEAD
3/10/82	3/15/82		22/82		2246' (		ROTARY TO	22	249 GR
	I I		HOW	LTIPLE COMPL MANY®		RILLED BY			CRESS 10050
1187' MD		2' MD		- (VD 4 VD 7 VD)		<u>&gt;                                   </u>	0-1187'		WAS DIRECTIONAL
						1006	1100 1		SURVEY MADE
Disposal W	lell - Judit	n Kiver F	ormation -	1028-103		7-1030	, 1100-1		No
26. TYPE ELECTRIC A			_						S WELL CORED
Dual Induc	tion Focuse	d Log, Ga	mma Ray					<u> </u>	No
23.			ING RECORD (Re						•
CASING SIZE	WEIGHT, LB./FT	. DEPTH SE	T (MD) H	OLE SIZE		EMENTING		_	AMOUNT PULLED
8-5/8"	24#	302 '	11	12-1/4"	250 sa	icks C1	ass "G"	.	·
5-1/2"	14#	1186 '		7-7/8"	300 s a	icks Cl	ass "G"		
•									
									· · · · · · · · · · · · · · · · · · ·
29.	· LI	NER RECORD			30.	2	UBING REC	ORD	
8IZI	TOP (MD) B	OTTOM (MD)	SACES CEMENT*	SCREEN (M	D) 812	:E	DEPTH SET ()	(D)	PACKER SET (MD)
NA					2-7/	'8",	976'		976 <sup>.1</sup>
31. PERFORATION REC	OBD (Interval, eize	and number)	•	82.	ACID, SHO	OT, FRACT	URE, CEMEN	T SQUE	EZE, ETC.
1028-10381	2 JSPF.	4" Jumbo	Jet casing	DEPTH INT	EBVAL (MD)	AM	OUNT AND EIR	TD OF M	ATERIAL USED
1080-1096'	gun (.49	_		1028-	10381	100	gallon	s 15%	HC1
1108-1116'	R 30 (	,,		1080-		_			
1100 1110	1/ 1/4	/		1108-			•		
0	W 2 20 (2)	445			<u> </u>				
33.*	8 1/ AA 1 A	71.0	PRG	DUCTION		<u> </u>			
DATE FIRST PRODUCTION	ON PRODUCT	ON METHOD (F	lowing, gas lift, p	oumping—size	and type of p	ump)		STATUS (t-in)	(Producing or
DATE OF TEST	HOURS TESTED	CHORE BISE	PROD'N. FOR TEST PERIOD	OII-BBL.	GAS-	MCF.	WATER-BBI	<u>   0</u>	AS-OIL RATIO
		ł							
FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR BATE	OIL—BBL.	GAS-	MCF.	WATER-	-B8L.	OIL OR	AVITY-API (CORR.)
		<del></del>	·					,	
34. DISPOSITION OF GA	s (Sold, used for fu	el, vented, etc.)					TEST WITSE	SSED BY	
35. LIST OF ATTACHM	ENTS					<del> </del>			
36. I hereby certify	that the oregoing	nd attached to	formation is comp	plete and corre	ct as determ	ined from i	ill available r	ecords	
The state of the s	KK) Y/ell	Villean	us n.	roduction	Manage	<b>~</b>		Nove	ember 9, 1982
SIGNED	4.000		TITLE P	ouuc C101	rianage		DATI	5 110 46	- 130Z
- <del></del>									

\*(See Instructions and Spaces for Additional Data on Reverse Side)



Control of the Contro	FOR ACCOUNTING	NG USE ONL	THE WEST	ERN COMP		A CONT		WESTER		
			OF NOR	TH AMERICA		ELD RECE	-	L 5	398	76
			(BVO(CE, NUMBER	DISTRICT	EVATE	TYPE CLASS	Rid	• * •	AGCT.	MANS.
MAIL	ER (COMPANY N			CITY	CREDIT APP	STATE	PURCH	ASE ORI	CODE	
DATE WORK PERFORMED:	MO. / DAY /	YEAR PZ	WESTERN SERVICE EN		WELL TYP	INCAA	<u>J</u> .	OLD		,
WESTERN DIST	RICT		DISTRICT SALES		WELL CLA			DISPO	Control of the State of the Sta	1:
WELL NAME AN	- Fried State Stat		TO WELL DEPTH (F	T.) <u>/</u> 200	RIG TYPE:		VER -		ORIG	□,
WELL LOCATION:	SEC/T	WP/RGE	COUNTY	STATE	GAS USED	ON JOB:	,c	02	NONE	
UNITS	CODE		DEPTHS AN	D DESCRIPTION		UNIT	PRICE	AN	TNUON	
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1.0	K210-3	EXTRI	1 HPS	ersul) seva archas		610	. 00	K	010	00
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JOB TYPE CODE:

#### CEMENTING SERVICES

- 10. CONDUCTOR SURFACE
- 11. INTERMEDIATE
- 13. LONG 14. LINER 15. TIEBACK
- 16. PLUG & ABANDON 17. PLUG BACK
- 18. SQUEEZE 19. PUMPING (CEMENT)
- 20. BULK SALE (CEMENT)

#### STIMULATION SERVICES

MAX

- 30. ACID, MATRIX
  31. ACID, FRACTURE
  32. FRACTURE, 0-9,999 psi
  33. FRACTURE, 10,000 + psi
  34. PUMPING (STIM)
  35. BULK SALE (STIM)

#### OTHER SERVICES

- 40. SAND CONTROL
- 41. PUMPING (NITROGEN)

## SEE REVERSE FOR GENERAL TERMS AND CONDITIONS

ACCOUNTING USE ONLY

BY SIGNING THIS RECEIPT, CUSTOMER ACKNOWLEDGES THAT HE HAS READ. IS FAMILIAR WITH, AND ACCEPTS ALL TERMS AND CONDITIONS OF SALE INCLUDING THOSE ON REVERSE AND THOSE PROVIDED WITH PRICE LIST.

CUSTOMER SIGNATURE WESTERN APPROVAL X

CUSTOMER REP. LAST NAME



Field Rep	ort No. 1539876 Date 3-15-82			Conductor	Surface	Intermed.	Product	Liner	внст г
Olstrict _	S.dwey	1	Size	٢		5/z			
	Legal Description		Weight			14			i
	upervisor M. D. GAMANTER		Thread			F			
Well Nam	е		Top Stage Collar						
County_	State MT	E	Bottom Stage Collar						
	F, BHCT F, Formation	H	Float Collar			1156			
Tbg/DP:	Size Wt Dispi		Shoe			1197			
Backer Se	et AtTall Pipe	C	Top Stage Collar						
Perforated	interval	P	Bottom Stage Collar						
	Shts per Ft Perf Hole Size	1	Float Collar			ء د	-		
Open Hol	e Size Excess	ľ	Shoe			1			
#Sacks	Cement System Composition			STAGE	Weight	Yleld	Volume BBL-Cu.ft.	Mix Water %-gai/sk	Thickening Time
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42

Time		Pump	Pres	sure
Time -2400 Hr.	Remarks	Rate	Tubing	sure Casing
2130	Applien on Cocation			
2330	STRETES in hole with Casing			
0600	Started in how with SEBIS FORSA			
	Stanton Mini Clary		1	-
0210	Staples Mixing C'Exunt		-	-
0776	OPOPED Plug (Plug hung up in hero) DisplaceD 28 BBIS Bunginen Plug		<del>                                     </del>	
0710	DISPLACED 28 BBIS Bumpinen Plug			1200
0 740	Bumpeo Plug			120
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	Good Returns			
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Phone (303) 371-0330 • Telex No. 45-867 TWX No. 910-932-0846

10777 EAST 45TH AVENUE . DENVER, COLORADO 80239

DISTRIBUTORS FOR: Waukesha Engine Div. . Deutz Co. Worthington Corp. • Twin Disc Inc. • Roper Pump Co. Wheatley Co. . Ariel Co. . Larkin Div., Joy Mfg. Co.

FABRICATORS OF: Electric Plants • Gas Compressor Units • Pump Units

#### BRANCH OFFICES:

3400 West Yellowstone Road CASPER, WYO. 82601 Phone (307) 234-1548

218 Airport Drive FARMINGTON, N. MEX 87401 Phone (505) 325-7529

Highway 2 North WILLISTON, N. DAK, 58801 Phone (701) 572-6343

Highway 40 East VERNAL, UTAH 84078 Phone (801) 789-3383

6115 W. 10th Street GREAT BEND, KANS. 67530 Phone (316) 793-3553

210 County Estates Rd. LIBERAL, KANS. 67901 Phone (316) 624-5674

## Quotation

QUOTED TO

CENTURY OIL & GAS CORP. 717 17TH STREET, SUITE 1770

DENVER, COLORADO 80202

ATTENTION:

MR. JACK McWILLIAMS

BRANCH DENVER

DATE

DECEMBER 23, 1981

#### Article

ONE (1) WHEATLEY PLUNGER PUMP MODEL P-323 WITH 2-1/2" PLUNGERS, ALUMINUM BRONZE FLUID END, STAINLESS STEEL VALVES, 30 HP ODP ELECTRIC MOTOR, SKID, DRIVE BELTS AND SHEAVES, BELT GUARD, MURPHY LOW OIL LEVEL SWITCHGAGE, MURPHY VIBRATION SHUTDOWN SWITCH AND FORCE FEED LUBRICATOR.

TOTAL COST F.O.B. GREAT BEND, KANSAS

\$11,898.00

OPTION: 1" BAIRD RELIEF VALVE

Waulesha Mo 220 prime mover converted & 2018 dec. no to

JOHN DOWN S 225.00 JOHN DOWN JOHN JOHN SO /WD

This quotation is subject to conditions printed on back of this sheet.

POWER APPLICATION & MEG. CO.

No.

FORW BRIMBIER & SALA

114

I'M WOPTH, GATES THE HART

Form No. 2

NOTICE THIS FORM BECOMES PERMIT WHEN STAMPED APPROVED BY AN AGENT THE BOARD.

(SUBMIT IN QUADRUPLICATI

36-3.18(10)-518020 MARE 36-3.18(10)-S18030

RECEIVE MASS 6-3.18(10)-518140

BOARD OF OIL AND GAS CONSERVATIONS GAS CONS. COMMANDE 3.18(10)-518200
OF THE STATE OF MONTANA STATE OF MONT. MEGAS 1.8(10)-518310
BILLINGS MAG 363.18(10)-518330

(KC 36-3 18(1,4)-518380

SUNDRY NOTICES AND REPORT OF WELL

BILLINGS OR SHELBY

Notice of Intention to Drill	Subsequent Report of Water Shut-off	14. 17 .	12/8
Notice of Intention to Change Plans	Subsequent Report of Shooting, Acidizing, Cementing,	120	/( د
Notice of Intention to Test Water Shut-off	Subsequent Report of Altering Casing	2	` [i]
Notice of Intention to Redrill or Repair Well	Subsequent Report of Redrilling or Repair	435	-///
Notice of Intention to Shoot, Acidize, or Cement	Subsequent Report of Abandonment	7.4	
Notice of Intention to Pull or Alter Casing	Supplementary Well History		,,,
Notice of Intention to Abandon Well	Report of Fracturing		
Notice of Intention to Provide Salt	Water Disposal Emergency Pit	Х	

May 4 Following is a notice of intention to do work on land described as follows: LEASE Goings Northwest Poplar Roosevelt ......MONTANA .. ............. (State) LOCATE WELL SITE ACCURATELY ON PLAT ON BACK OF THIS FORM. The elevation of the ground or K.B. above the sea level is \_\_\_\_\_ 2246 GR

READ CAREFULLY

#### DETAILS OF PLAN OF WORK

READ CAREFULLY

(State names of and expected depths to objective sands; show size, weights, and lengths of proposed cosings, cementing points, and all other important proposed work, particularly all details of Shooting, Acidizing, Fracturing.)

#### DETAILS OF WORK RESULT

Century Oil & Gas Corporation respectfully requests Board approval to provide an emergency standby earthen pit in the event of interrupted service to our Goings #1 SWDW facility located 528' FNL, 2065' FWL, Section 27, T29N-R50E, Northwest Poplar Field, Roosevelt County, Montana. The subject disposal facility is currently handling approximately 2000± BWPD and a backup emergency system is needed to prevent potential contamination to surface water systems. Century pursuant to Section 36-3.18(10)-S18280 of the Board's rules and regulations relating to oil and gas operations requests Board approval to excavate and line an earthen pit capable of 4000 barrels fluid.

Approved	subject	to c	onditio	ns on	reverse	of	form	ו
Date	אטן 🤄		**********			•••		
By Thoma								
•	Distr	ict Of	fice Ag	gent		itle	•••	*********

....Century Oil...&..Gas...Corporation.... MeWilleams Production Manager

Address 717 17th Street, Suite 1770 Denver, Colorado 80202

BOARD USE ONLY API WELL NUMBER

COUNT

DRILLING PERMIT EXPIRES 90 DAYS FROM DATE OF AFPROVAL TIPON WRITTEN REOUTSI PRIOR TO EXPIRATION DATE, ONE 90 DAY EXTENSION MAY BE GRANTED

pproved. OMB No. 2040-0042. Approval expires 9-30-86 UNITED STATES ENVIRONMENTAL PROTECT WASHINGTON, DC 20460 EXHIBIT XIV PLUGGING AND ABANDONMENT PLAN NAME AND ADDRESS OF FACILITY NAME AND ADDRESS OF OWNER/OPERATOR Goings #1 SWDW Century Oil & Gas Corporation 7887 East Belleview, Suite 800 NENW Section 27-T29N-R50E Englewood, Colorado 80111 Roosevelt County, Montana STATE LOCATE WELL AND OUTLINE UNIT ON Roosevelt SECTION PLAT - 640 ACRES SURFACE LOCATION DESCRIPTION 27 TOWNSHIP 29N 14 OF NW 14 OF 1/4 SECTION LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT Surface 528ft. from (N/<del>0)</del> \_\_\_\_ Line of quarter section and 2065, from (E/W) \_\_\_\_ Line of quarter section TYPE OF AUTHORIZATION WELL ACTIVITY Male Individual Permit ☐ CLASS I CLASS II ☐ Area Permit ☑ Brine Disposal ☐ Enhanced Recovery Number of Wells 1 ☐ Hydrocarbon Storage CLASS III Lease Name Well Number Goings CASING AND TUBING RECORD AFTER PLUGGING METHOD OF EMPLACEMENT OF CEMENT PLUGS X The Balance Method TO BE PUT IN WELL (FT) TO BE LEFT IN WELL (FT) HOLE SIZE SIZE WT(LB/FT) ☐ The Dump Bailer Method 8 5/8 24 302 302 12 1/4 ☐ The Two-Plug Method Other 14 1186 1186 7 7/8 CEMENTING TO PLUG AND ABANDON DATA PLUG #1 PLUG #2 PLUG #3 PLUG #4 PLUG #5 PLUG #6 PLUG #7 5 1/2 Size of Hole or Pipe in which Plug Will Be Placed (inches) Depth to Bottom of Tubing or Drill Pipe (ft.) 1116 Sacks of Cement To Be Used (each plug) 144 Slurry Volume To Be Pumped (cu. ft.) 153 Calculated Top of Plug (ft.) Surface Measured Top of Plug (if tagged ft.) NA Slurry Wt. (Lb./Gal.) 16.4 Type Cement or Other Material (Class III) Class H LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (If any) 1028 1038 1080 1096 1108 1116

#### CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

NAME AND OFFICIAL TITLE (Please type or print)

SIGNATURE

DATE SIGNED

Ted D. Brown, Staff Engineer

Estimated Cost to Plug Wells

\$10,000